

0304583-EE894050

REPLACEMENT  
AS A RESULT OF  
REVERSE  
TRANSCRIPTION  
OF VECTOR RNA

IRRELEVANT SEQUENCE  
REPLACEMENT  
MUTATION OF  
ENHANCER AND  
PROMOTER

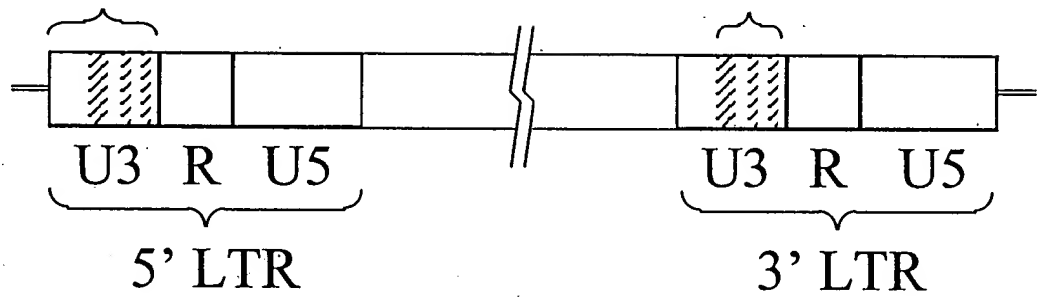


Figure 1

004683 032498

Wild type 3' LTR sequence:

1 GAACAGATGG AACAGCTGAA TATGGGCCAA ACAGGATATC TGTGG TAAGC  
51 AGTTCC TGCC CCGGCTCAGG GCCAAGAACA GATGGAACAG CTGAATATGG  
101 GCCAAACAGG ATATCTGTGG TAAGCAGTTC CTGCCCCGGC TCAGGGCCAA  
151 GAACAGATGG TCCCCAGATG CGGTCCAGCC CTCAGCAGTT TCTAGAGAAC  
201 CATCAGATGT TTCCAGGGTG CCCCAAGGAC CTGAAATGAC CCTGTGCCTT  
251 ATTTGAACTA ACCAATCAGT TCGCTTCTCG CTTCTGTTCG CGCGCTTCTG  
301 CTCCCCGAGC TCAATAAAA

Corresponding modified 3' LTR sequence from pENZ1  
(modified sequences in bold italics):

1 *ACGCTTGATC CGGCTACCTG CCCATTGAC CACCAAGCGA AACATCGCAT*  
51 *CGAGCGAGCA CGTACTCGGA TGAAGCCGG TCTGTGCGAT CAGGATGATC*  
101 *TGGACGAAGA GCATCAGGGG CTCGCGCCAG CCGAACTGTT CGCCAGGCTC*  
151 *AAGGCGCGCA TGCCCGACGG CGAGGATCTC GTCGTGACTT TCTAGAGAAC*  
201 CATCAGATGT TTCCAGGGTG CCCCAAGGAC CTGAAATGAC CCTGTGCCTT  
251 ATTTGAACTA ACCGGTCAGT TCGCTTCTCG CTTCTGTTCG CGCGCTTCTG  
301 CTCCCCGAGC *TCAGCTGCG*

Figure 2

00046833 032498  
867220-CC894060

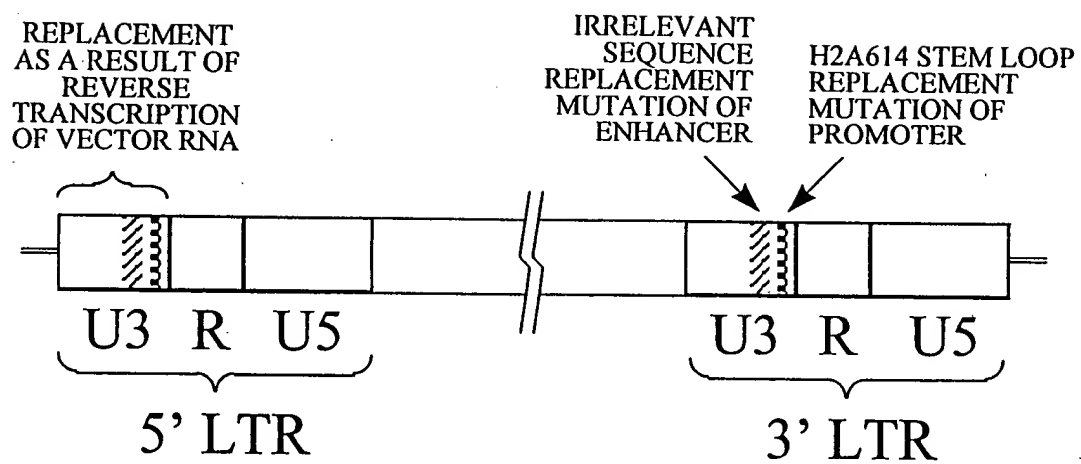


Figure 3

0044060-EE894060

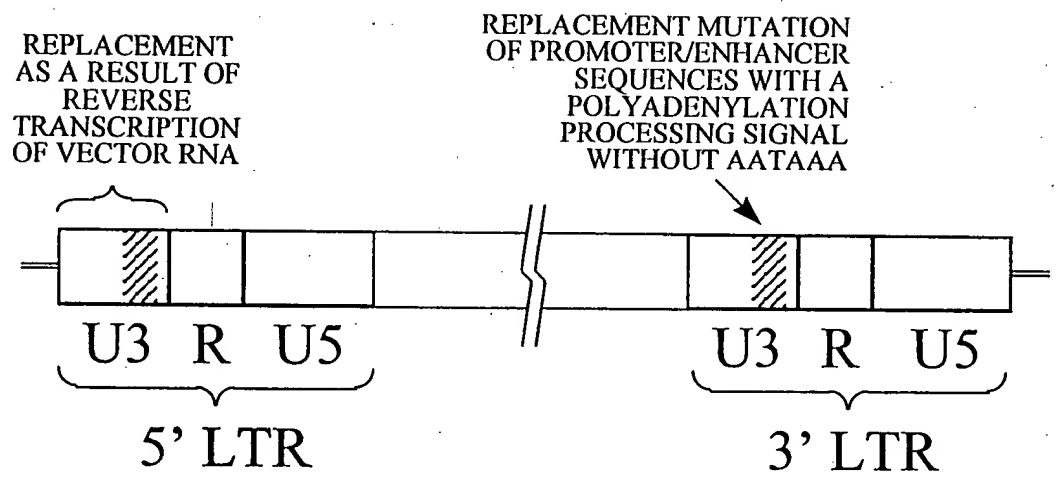


Figure 4

864220" EE894060

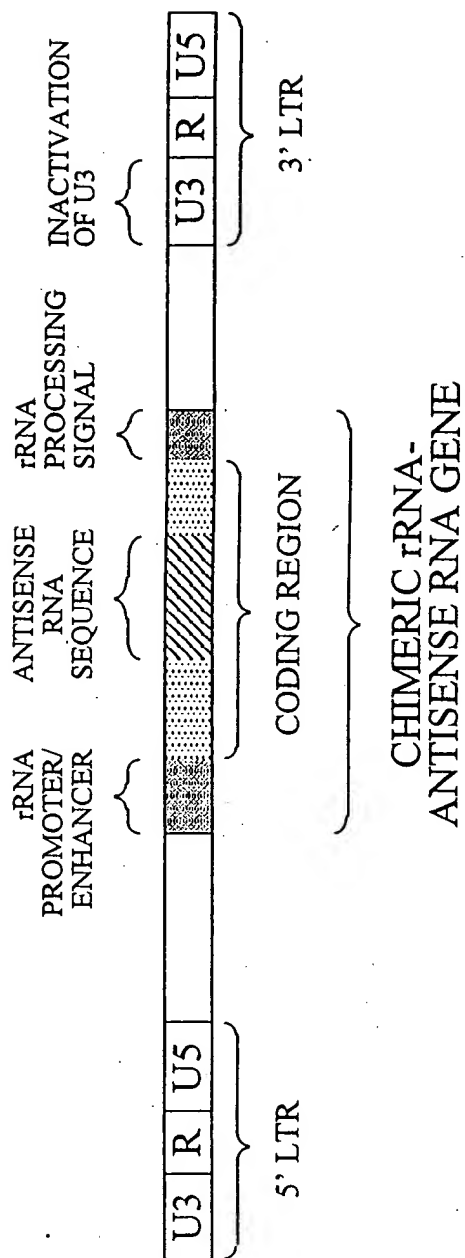


Figure 5

864220" EE894060

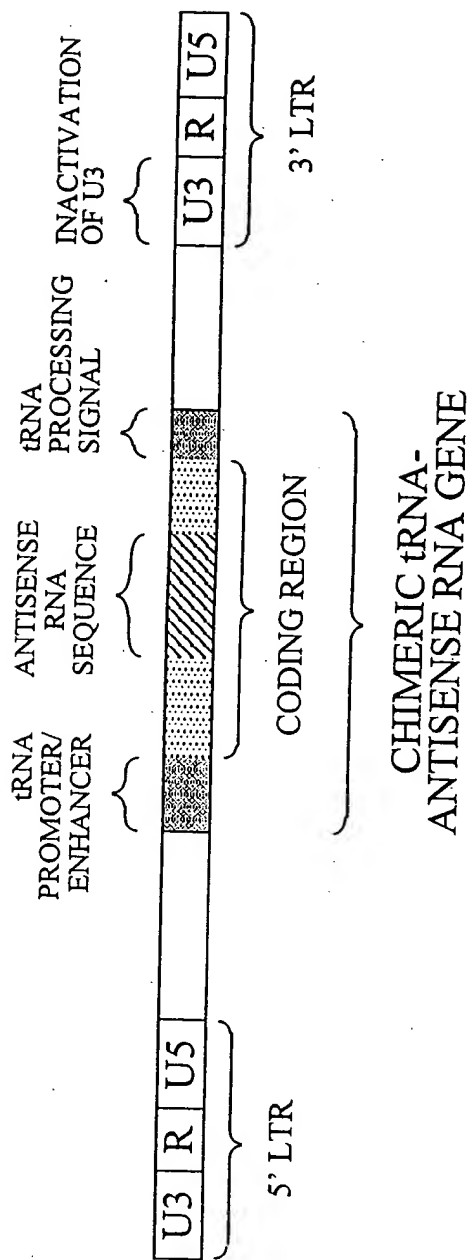


Figure 6



864250-EE894050

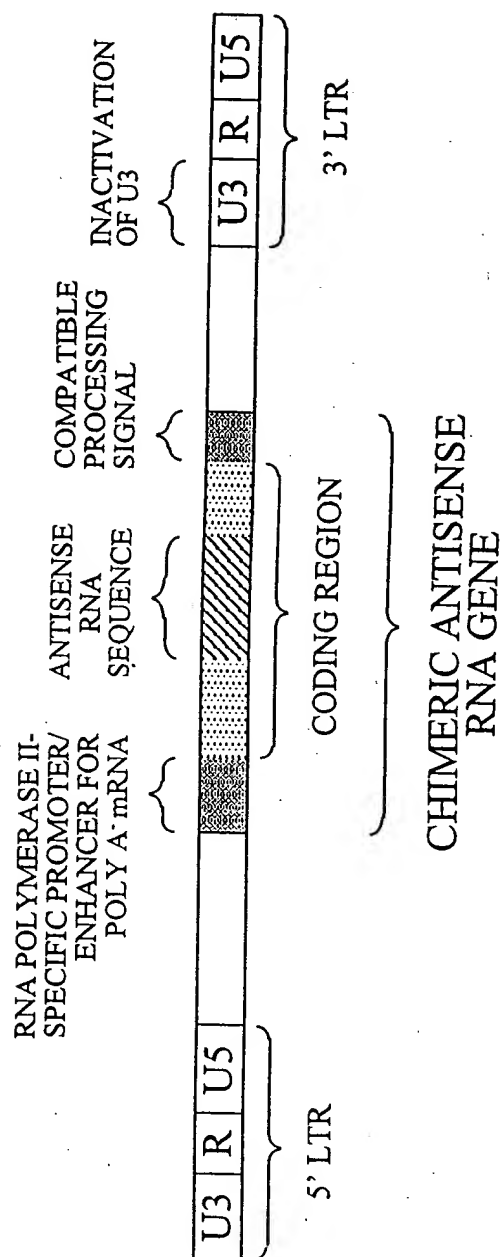


Figure 7

0004633-0324050

Vector DNA  
Construct Transfected  
into Packaging Cell

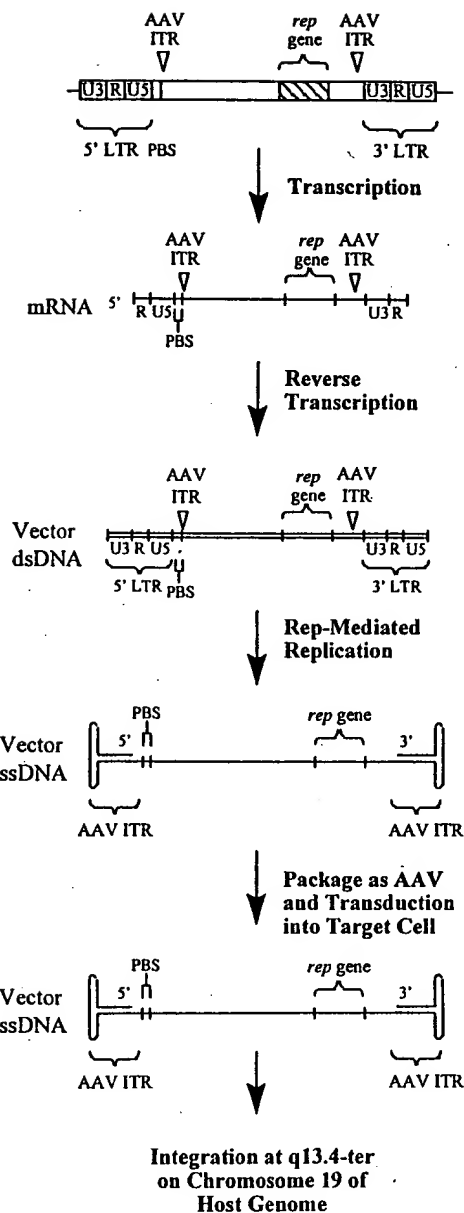


Figure 8



09046833 032498

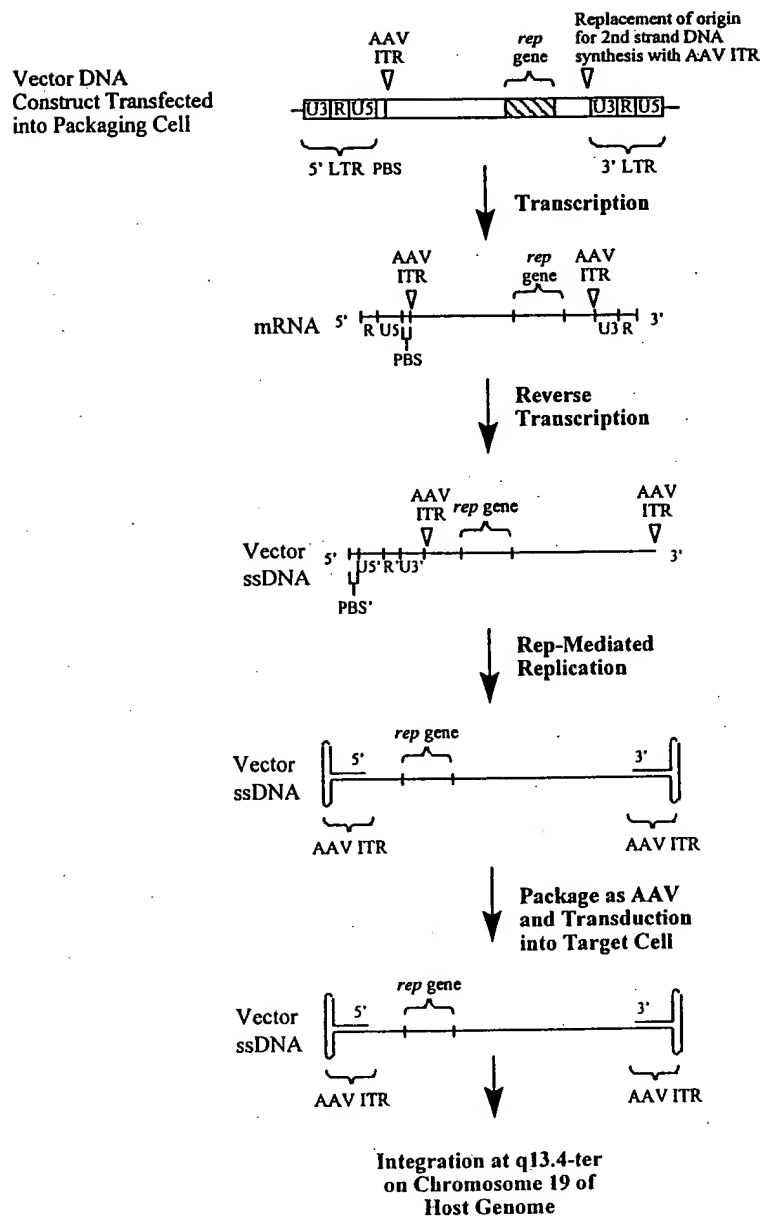


Figure 9

0904633-EE897060

Vector DNA Construct  
Transfected into  
Packaging Cell

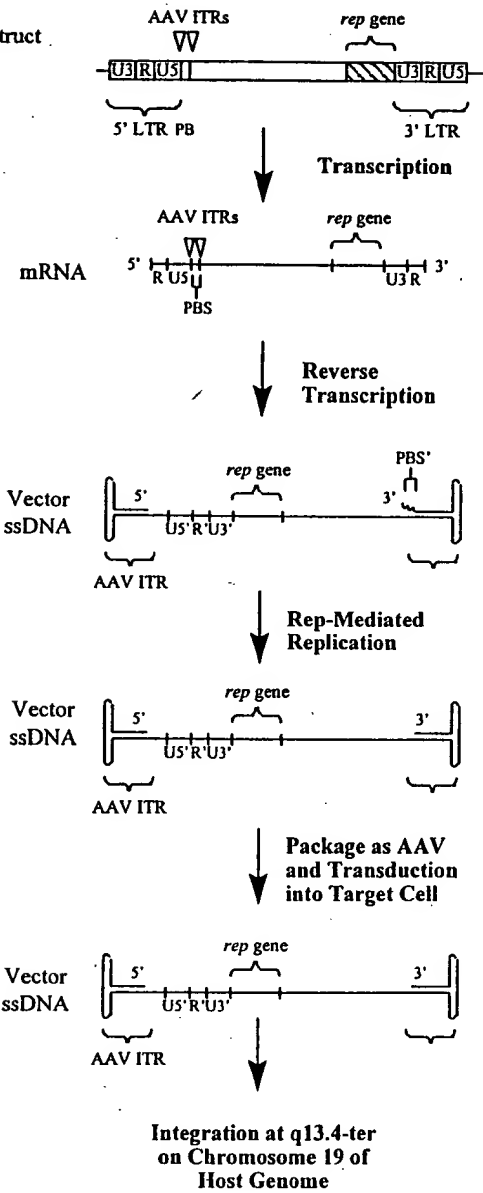


Figure 10

0004633.02493

Vector DNA  
Construct Transfected  
into Packaging Cell

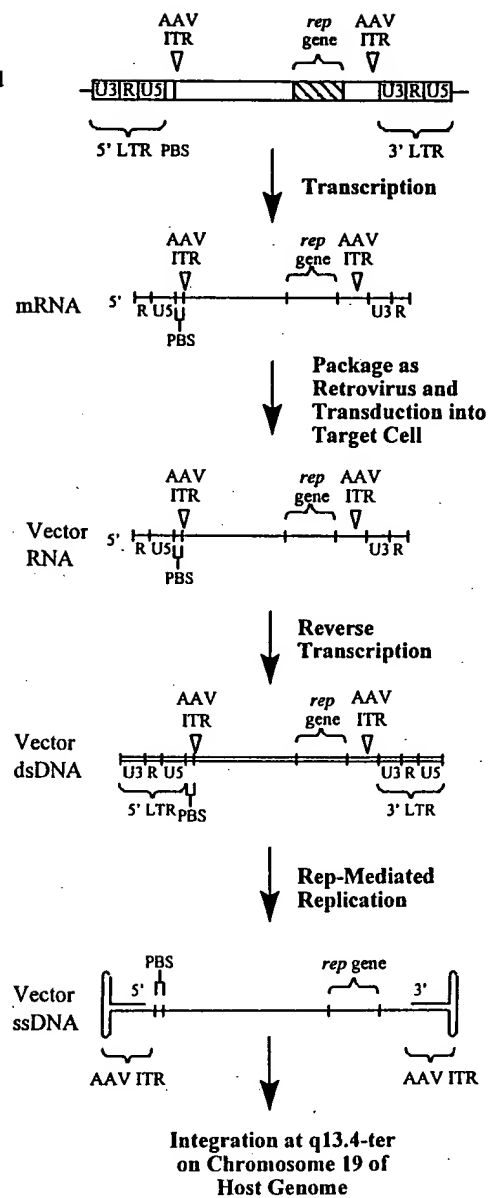


Figure 11

09046833-032490

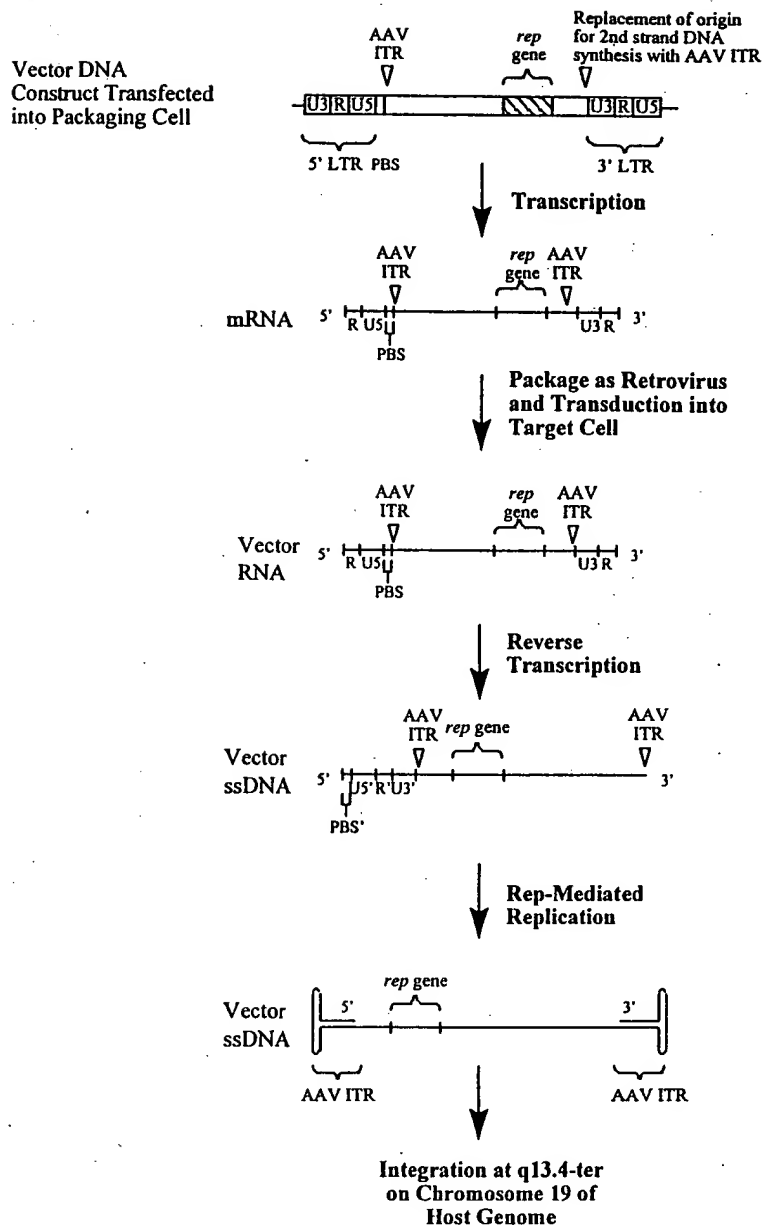
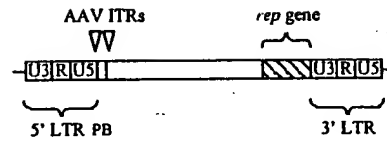


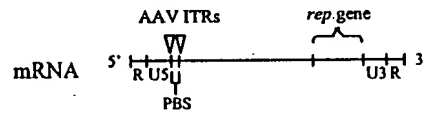
Figure 12

09046833-032498

Vector DNA Construct  
Transfected into  
Packaging Cell

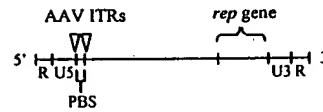


Transcription

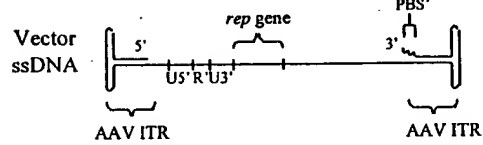


Package as Retrovirus  
and Transduction into  
Target Cell

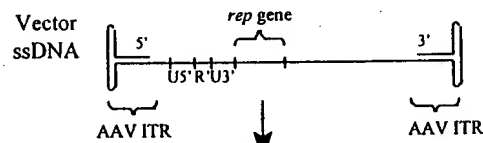
Vector  
RNA



Reverse  
Transcription



Rep-Mediated  
Replication



Integration at q13.4-ter  
on Chromosome 19 of  
Host Genome

Figure 13